

Appendix for LTE BAND 38

Product Name: 4G ADAS DMS 2CH Dashcam

Model No: LCD02

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	22.11	PASS
Band38	5MHz	16QAM	37775	1RB#0	22.10	PASS
Band38	5MHz	QPSK	37775	1RB#12	22.22	PASS
Band38	5MHz	16QAM	37775	1RB#12	22.32	PASS
Band38	5MHz	QPSK	37775	1RB#24	22.26	PASS
Band38	5MHz	16QAM	37775	1RB#24	22.62	PASS
Band38	5MHz	QPSK	37775	12RB#0	21.83	PASS
Band38	5MHz	16QAM	37775	12RB#0	20.79	PASS
Band38	5MHz	QPSK	37775	12RB#6	21.73	PASS
Band38	5MHz	16QAM	37775	12RB#6	20.83	PASS
Band38	5MHz	QPSK	37775	12RB#13	21.73	PASS
Band38	5MHz	16QAM	37775	12RB#13	20.99	PASS
Band38	5MHz	QPSK	37775	25RB#0	22.02	PASS
Band38	5MHz	16QAM	37775	25RB#0	21.10	PASS
Band38	5MHz	QPSK	38000	1RB#0	22.42	PASS
Band38	5MHz	16QAM	38000	1RB#0	22.45	PASS
Band38	5MHz	QPSK	38000	1RB#12	22.04	PASS
Band38	5MHz	16QAM	38000	1RB#12	22.91	PASS
Band38	5MHz	QPSK	38000	1RB#24	22.10	PASS
Band38	5MHz	16QAM	38000	1RB#24	22.41	PASS
Band38	5MHz	QPSK	38000	12RB#0	21.87	PASS
Band38	5MHz	16QAM	38000	12RB#0	20.90	PASS
Band38	5MHz	QPSK	38000	12RB#6	21.89	PASS
Band38	5MHz	16QAM	38000	12RB#6	20.92	PASS
Band38	5MHz	QPSK	38000	12RB#13	21.89	PASS
Band38	5MHz	16QAM	38000	12RB#13	20.85	PASS
Band38	5MHz	QPSK	38000	25RB#0	21.77	PASS
Band38	5MHz	16QAM	38000	25RB#0	21.22	PASS
Band38	5MHz	QPSK	38225	1RB#0	22.39	PASS
Band38	5MHz	16QAM	38225	1RB#0	22.20	PASS
Band38	5MHz	QPSK	38225	1RB#12	22.46	PASS
Band38	5MHz	16QAM	38225	1RB#12	22.64	PASS
Band38	5MHz	QPSK	38225	1RB#24	22.40	PASS
Band38	5MHz	16QAM	38225	1RB#24	22.42	PASS
Band38	5MHz	QPSK	38225	12RB#0	21.80	PASS
Band38	5MHz	16QAM	38225	12RB#0	21.02	PASS

Band38	5MHz	QPSK	38225	12RB#6	21.83	PASS
Band38	5MHz	16QAM	38225	12RB#6	21.03	PASS
Band38	5MHz	QPSK	38225	12RB#13	21.81	PASS
Band38	5MHz	16QAM	38225	12RB#13	20.99	PASS
Band38	5MHz	QPSK	38225	25RB#0	21.85	PASS
Band38	5MHz	16QAM	38225	25RB#0	21.06	PASS
Band38	10MHz	QPSK	37800	1RB#0	22.42	PASS
Band38	10MHz	16QAM	37800	1RB#0	22.25	PASS
Band38	10MHz	QPSK	37800	1RB#24	22.49	PASS
Band38	10MHz	16QAM	37800	1RB#24	22.34	PASS
Band38	10MHz	QPSK	37800	1RB#49	22.59	PASS
Band38	10MHz	16QAM	37800	1RB#49	22.48	PASS
Band38	10MHz	QPSK	37800	25RB#0	22.04	PASS
Band38	10MHz	16QAM	37800	25RB#0	21.27	PASS
Band38	10MHz	QPSK	37800	25RB#12	22.05	PASS
Band38	10MHz	16QAM	37800	25RB#12	21.27	PASS
Band38	10MHz	QPSK	37800	25RB#25	22.11	PASS
Band38	10MHz	16QAM	37800	25RB#25	21.29	PASS
Band38	10MHz	QPSK	37800	50RB#0	22.13	PASS
Band38	10MHz	16QAM	37800	50RB#0	21.31	PASS
Band38	10MHz	QPSK	38000	1RB#0	22.63	PASS
Band38	10MHz	16QAM	38000	1RB#0	22.09	PASS
Band38	10MHz	QPSK	38000	1RB#24	22.62	PASS
Band38	10MHz	16QAM	38000	1RB#24	21.82	PASS
Band38	10MHz	QPSK	38000	1RB#49	22.54	PASS
Band38	10MHz	16QAM	38000	1RB#49	21.96	PASS
Band38	10MHz	QPSK	38000	25RB#0	21.95	PASS
Band38	10MHz	16QAM	38000	25RB#0	21.38	PASS
Band38	10MHz	QPSK	38000	25RB#12	21.96	PASS
Band38	10MHz	16QAM	38000	25RB#12	21.38	PASS
Band38	10MHz	QPSK	38000	25RB#25	21.96	PASS
Band38	10MHz	16QAM	38000	25RB#25	21.23	PASS
Band38	10MHz	QPSK	38000	50RB#0	22.01	PASS
Band38	10MHz	16QAM	38000	50RB#0	21.13	PASS
Band38	10MHz	QPSK	38200	1RB#0	22.40	PASS
Band38	10MHz	16QAM	38200	1RB#0	22.13	PASS
Band38	10MHz	QPSK	38200	1RB#24	22.34	PASS
Band38	10MHz	16QAM	38200	1RB#24	22.15	PASS
Band38	10MHz	QPSK	38200	1RB#49	22.30	PASS
Band38	10MHz	16QAM	38200	1RB#49	21.99	PASS
Band38	10MHz	QPSK	38200	25RB#0	21.88	PASS
Band38	10MHz	16QAM	38200	25RB#0	21.20	PASS

Band38	10MHz	QPSK	38200	25RB#12	21.91	PASS
Band38	10MHz	16QAM	38200	25RB#12	21.21	PASS
Band38	10MHz	QPSK	38200	25RB#25	21.90	PASS
Band38	10MHz	16QAM	38200	25RB#25	21.11	PASS
Band38	10MHz	QPSK	38200	50RB#0	21.99	PASS
Band38	10MHz	16QAM	38200	50RB#0	21.22	PASS
Band38	15MHz	QPSK	37825	1RB#0	22.54	PASS
Band38	15MHz	16QAM	37825	1RB#0	22.22	PASS
Band38	15MHz	QPSK	37825	1RB#38	22.59	PASS
Band38	15MHz	16QAM	37825	1RB#38	22.44	PASS
Band38	15MHz	QPSK	37825	1RB#74	22.36	PASS
Band38	15MHz	16QAM	37825	1RB#74	22.47	PASS
Band38	15MHz	QPSK	37825	38RB#0	22.18	PASS
Band38	15MHz	16QAM	37825	38RB#0	22.18	PASS
Band38	15MHz	QPSK	37825	38RB#18	22.18	PASS
Band38	15MHz	16QAM	37825	38RB#18	22.18	PASS
Band38	15MHz	QPSK	37825	38RB#37	22.17	PASS
Band38	15MHz	16QAM	37825	38RB#37	22.18	PASS
Band38	15MHz	QPSK	37825	75RB#0	22.18	PASS
Band38	15MHz	16QAM	37825	75RB#0	21.33	PASS
Band38	15MHz	QPSK	38000	1RB#0	22.45	PASS
Band38	15MHz	16QAM	38000	1RB#0	22.49	PASS
Band38	15MHz	QPSK	38000	1RB#38	22.31	PASS
Band38	15MHz	16QAM	38000	1RB#38	22.34	PASS
Band38	15MHz	QPSK	38000	1RB#74	22.24	PASS
Band38	15MHz	16QAM	38000	1RB#74	22.21	PASS
Band38	15MHz	QPSK	38000	38RB#0	21.96	PASS
Band38	15MHz	16QAM	38000	38RB#0	21.96	PASS
Band38	15MHz	QPSK	38000	38RB#18	21.96	PASS
Band38	15MHz	16QAM	38000	38RB#18	21.96	PASS
Band38	15MHz	QPSK	38000	38RB#37	21.96	PASS
Band38	15MHz	16QAM	38000	38RB#37	21.96	PASS
Band38	15MHz	QPSK	38000	75RB#0	21.96	PASS
Band38	15MHz	16QAM	38000	75RB#0	21.10	PASS
Band38	15MHz	QPSK	38175	1RB#0	22.30	PASS
Band38	15MHz	16QAM	38175	1RB#0	22.30	PASS
Band38	15MHz	QPSK	38175	1RB#38	22.34	PASS
Band38	15MHz	16QAM	38175	1RB#38	22.15	PASS
Band38	15MHz	QPSK	38175	1RB#74	22.19	PASS
Band38	15MHz	16QAM	38175	1RB#74	21.95	PASS
Band38	15MHz	QPSK	38175	38RB#0	21.91	PASS
Band38	15MHz	16QAM	38175	38RB#0	21.91	PASS

Band38	15MHz	QPSK	38175	38RB#18	21.90	PASS
Band38	15MHz	16QAM	38175	38RB#18	21.90	PASS
Band38	15MHz	QPSK	38175	38RB#37	21.91	PASS
Band38	15MHz	16QAM	38175	38RB#37	21.91	PASS
Band38	15MHz	QPSK	38175	75RB#0	21.91	PASS
Band38	15MHz	16QAM	38175	75RB#0	21.32	PASS
Band38	20MHz	QPSK	37850	1RB#0	22.40	PASS
Band38	20MHz	16QAM	37850	1RB#0	22.51	PASS
Band38	20MHz	QPSK	37850	1RB#49	22.40	PASS
Band38	20MHz	16QAM	37850	1RB#49	22.51	PASS
Band38	20MHz	QPSK	37850	1RB#99	22.21	PASS
Band38	20MHz	16QAM	37850	1RB#99	22.24	PASS
Band38	20MHz	QPSK	37850	50RB#0	22.12	PASS
Band38	20MHz	16QAM	37850	50RB#0	21.47	PASS
Band38	20MHz	QPSK	37850	50RB#25	21.99	PASS
Band38	20MHz	16QAM	37850	50RB#25	21.48	PASS
Band38	20MHz	QPSK	37850	50RB#50	21.94	PASS
Band38	20MHz	16QAM	37850	50RB#50	21.36	PASS
Band38	20MHz	QPSK	37850	100RB#0	22.01	PASS
Band38	20MHz	16QAM	37850	100RB#0	21.14	PASS
Band38	20MHz	QPSK	38000	1RB#0	22.58	PASS
Band38	20MHz	16QAM	38000	1RB#0	22.15	PASS
Band38	20MHz	QPSK	38000	1RB#49	22.33	PASS
Band38	20MHz	16QAM	38000	1RB#49	22.17	PASS
Band38	20MHz	QPSK	38000	1RB#99	22.33	PASS
Band38	20MHz	16QAM	38000	1RB#99	22.04	PASS
Band38	20MHz	QPSK	38000	50RB#0	21.98	PASS
Band38	20MHz	16QAM	38000	50RB#0	21.19	PASS
Band38	20MHz	QPSK	38000	50RB#25	22.00	PASS
Band38	20MHz	16QAM	38000	50RB#25	21.19	PASS
Band38	20MHz	QPSK	38000	50RB#50	21.82	PASS
Band38	20MHz	16QAM	38000	50RB#50	21.00	PASS
Band38	20MHz	QPSK	38000	100RB#0	22.06	PASS
Band38	20MHz	16QAM	38000	100RB#0	21.20	PASS
Band38	20MHz	QPSK	38150	1RB#0	22.09	PASS
Band38	20MHz	16QAM	38150	1RB#0	21.83	PASS
Band38	20MHz	QPSK	38150	1RB#49	22.07	PASS
Band38	20MHz	16QAM	38150	1RB#49	21.31	PASS
Band38	20MHz	QPSK	38150	1RB#99	22.00	PASS
Band38	20MHz	16QAM	38150	1RB#99	21.39	PASS
Band38	20MHz	QPSK	38150	50RB#0	21.91	PASS
Band38	20MHz	16QAM	38150	50RB#0	21.24	PASS

Band38	20MHz	QPSK	38150	50RB#25	21.93	PASS
Band38	20MHz	16QAM	38150	50RB#25	21.25	PASS
Band38	20MHz	QPSK	38150	50RB#50	21.88	PASS
Band38	20MHz	16QAM	38150	50RB#50	21.12	PASS
Band38	20MHz	QPSK	38150	100RB#0	21.81	PASS
Band38	20MHz	16QAM	38150	100RB#0	21.10	PASS

Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

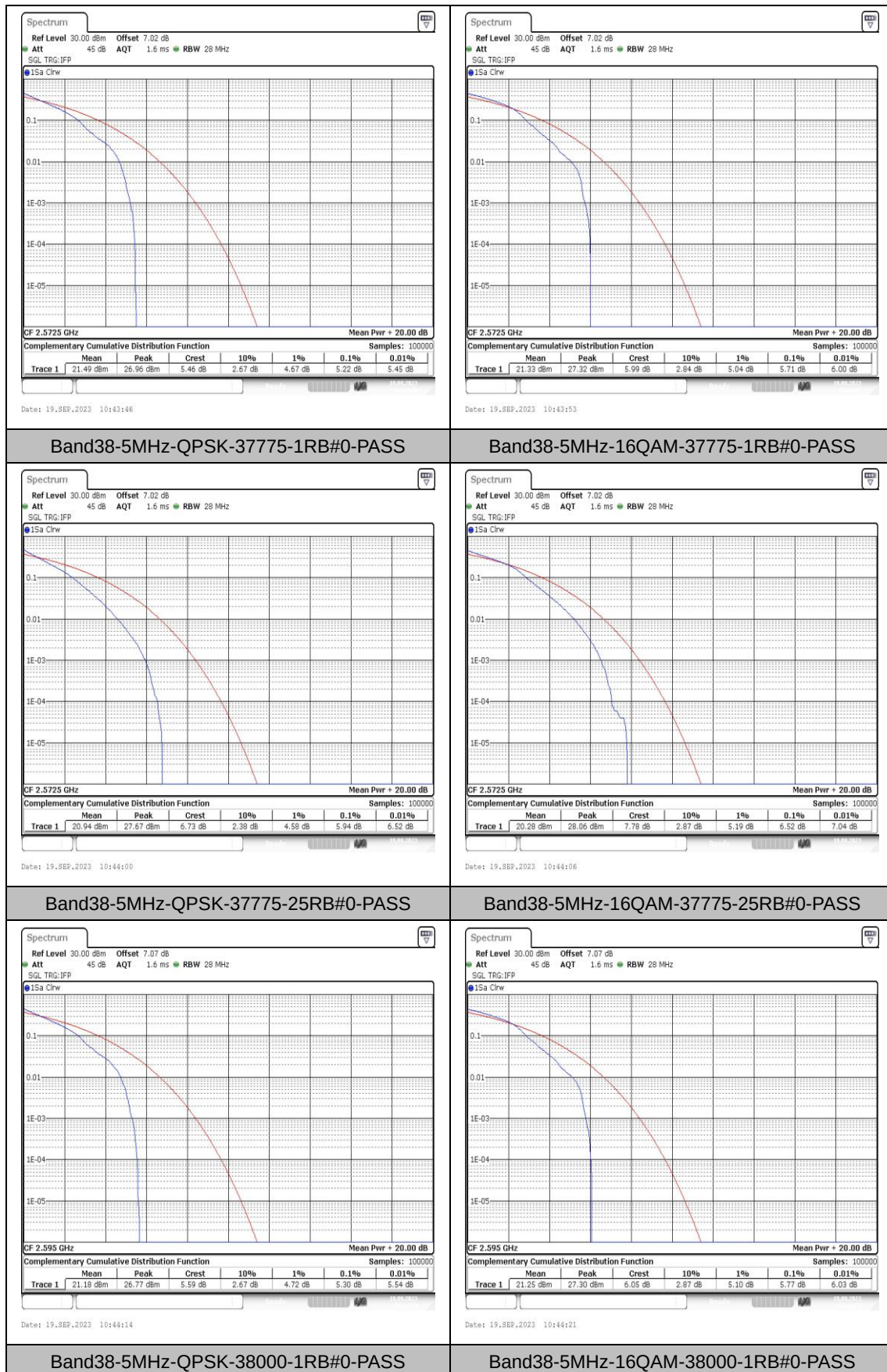
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	5.22	13	PASS
Band38	5MHz	16QAM	37775	1RB#0	5.71	13	PASS
Band38	5MHz	QPSK	37775	25RB#0	5.94	13	PASS
Band38	5MHz	16QAM	37775	25RB#0	6.52	13	PASS
Band38	5MHz	QPSK	38000	1RB#0	5.30	13	PASS
Band38	5MHz	16QAM	38000	1RB#0	5.77	13	PASS
Band38	5MHz	QPSK	38000	25RB#0	5.91	13	PASS
Band38	5MHz	16QAM	38000	25RB#0	6.55	13	PASS
Band38	5MHz	QPSK	38225	1RB#0	5.19	13	PASS
Band38	5MHz	16QAM	38225	1RB#0	5.71	13	PASS
Band38	5MHz	QPSK	38225	25RB#0	5.91	13	PASS
Band38	5MHz	16QAM	38225	25RB#0	6.49	13	PASS
Band38	10MHz	QPSK	37800	1RB#0	5.86	13	PASS
Band38	10MHz	16QAM	37800	1RB#0	14.96	13	PASS
Band38	10MHz	QPSK	37800	50RB#0	5.94	13	PASS
Band38	10MHz	16QAM	37800	50RB#0	6.61	13	PASS
Band38	10MHz	QPSK	38000	1RB#0	5.91	13	PASS
Band38	10MHz	16QAM	38000	1RB#0	6.67	13	PASS
Band38	10MHz	QPSK	38000	50RB#0	5.94	13	PASS
Band38	10MHz	16QAM	38000	50RB#0	6.61	13	PASS
Band38	10MHz	QPSK	38200	1RB#0	6.09	13	PASS
Band38	10MHz	16QAM	38200	1RB#0	6.29	13	PASS
Band38	10MHz	QPSK	38200	50RB#0	5.88	13	PASS
Band38	10MHz	16QAM	38200	50RB#0	6.61	13	PASS
Band38	15MHz	QPSK	37825	1RB#0	5.86	13	PASS
Band38	15MHz	16QAM	37825	1RB#0	6.32	13	PASS
Band38	15MHz	QPSK	37825	75RB#0	6.20	13	PASS
Band38	15MHz	16QAM	37825	75RB#0	6.64	13	PASS
Band38	15MHz	QPSK	38000	1RB#0	6.12	13	PASS
Band38	15MHz	16QAM	38000	1RB#0	6.67	13	PASS
Band38	15MHz	QPSK	38000	75RB#0	6.20	13	PASS
Band38	15MHz	16QAM	38000	75RB#0	6.64	13	PASS
Band38	15MHz	QPSK	38175	1RB#0	6.12	13	PASS
Band38	15MHz	16QAM	38175	1RB#0	6.35	13	PASS
Band38	15MHz	QPSK	38175	75RB#0	6.06	13	PASS
Band38	15MHz	16QAM	38175	75RB#0	6.61	13	PASS

Waltek Testing Group (Shenzhen) Co., Ltd.

<http://www.waltek.com.cn>

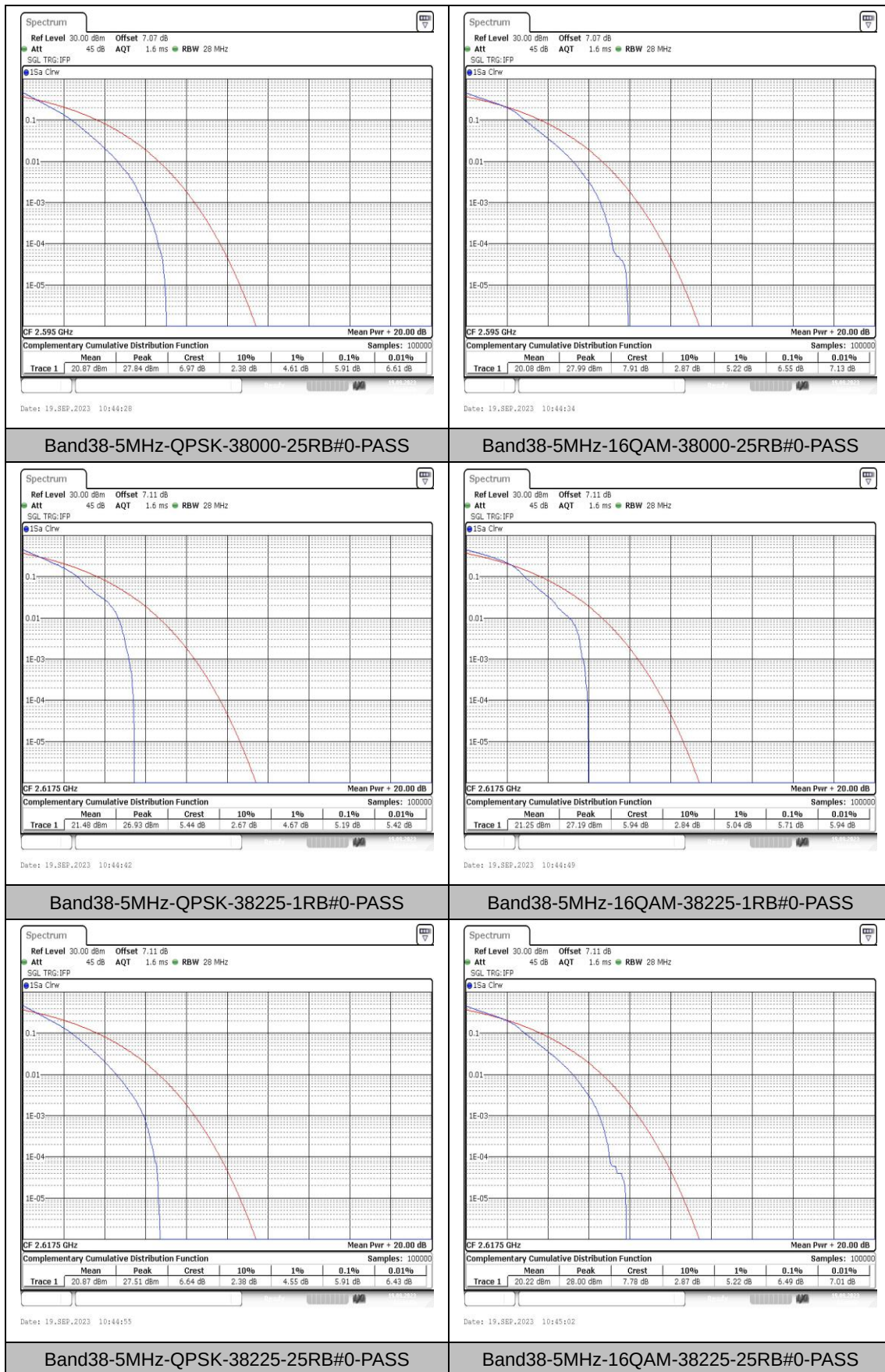
Band38	20MHz	QPSK	37850	1RB#0	5.83	13	PASS
Band38	20MHz	16QAM	37850	1RB#0	5.97	13	PASS
Band38	20MHz	QPSK	37850	100RB#0	5.74	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	6.46	13	PASS
Band38	20MHz	QPSK	38000	1RB#0	5.39	13	PASS
Band38	20MHz	16QAM	38000	1RB#0	6.12	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	5.83	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	6.49	13	PASS
Band38	20MHz	QPSK	38150	1RB#0	5.36	13	PASS
Band38	20MHz	16QAM	38150	1RB#0	5.74	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	5.77	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	6.46	13	PASS

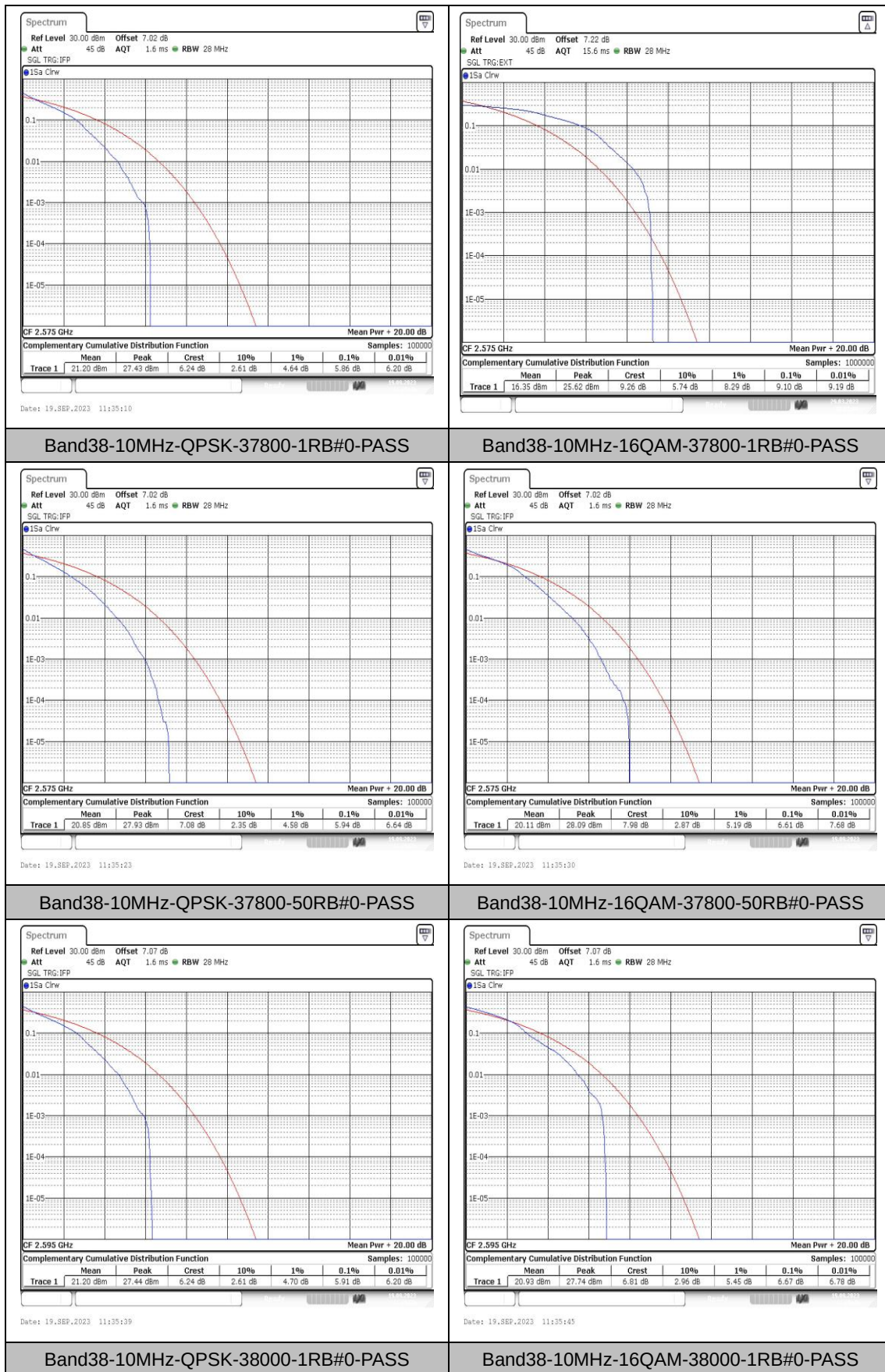
Test Graphs

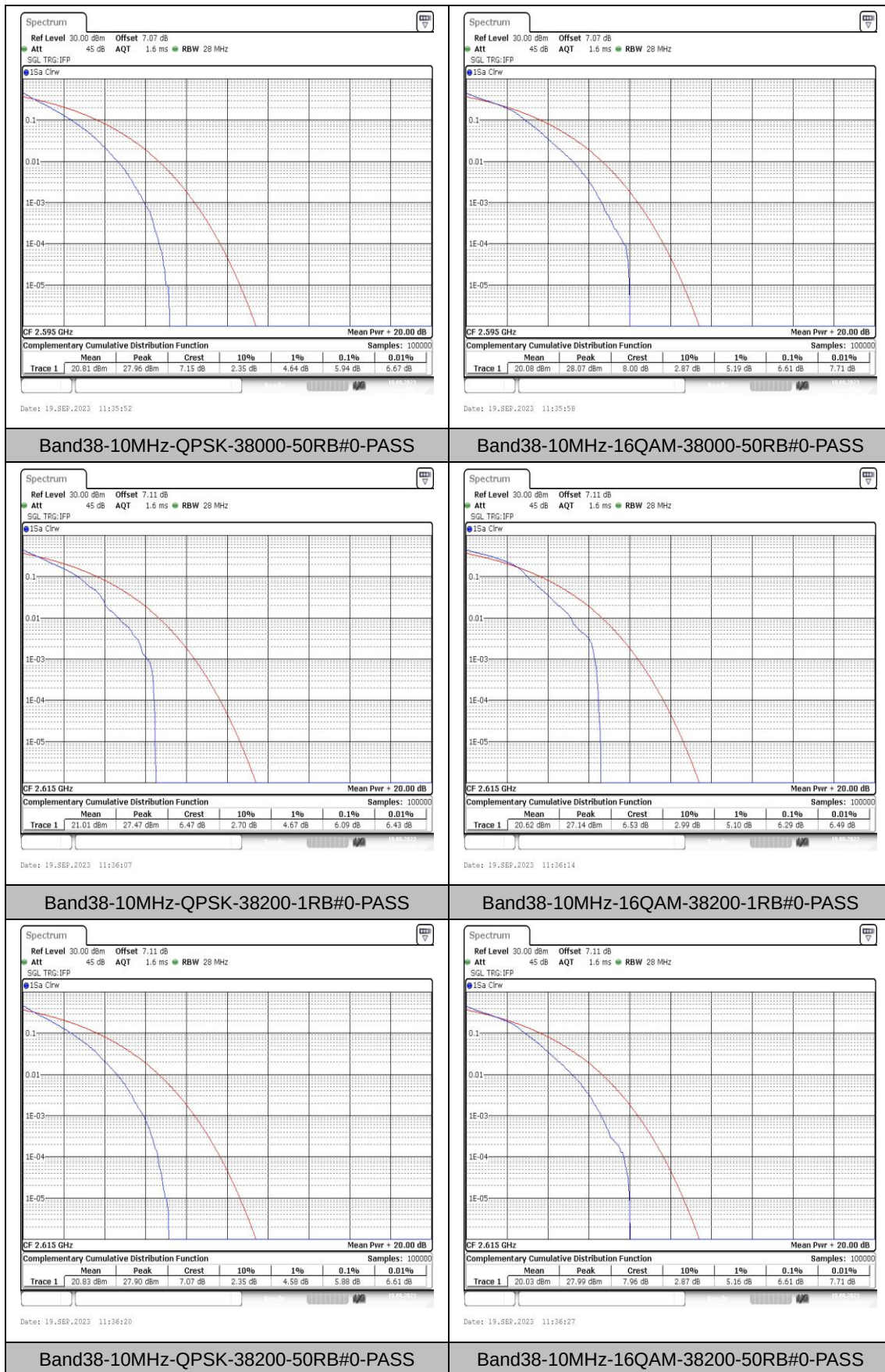


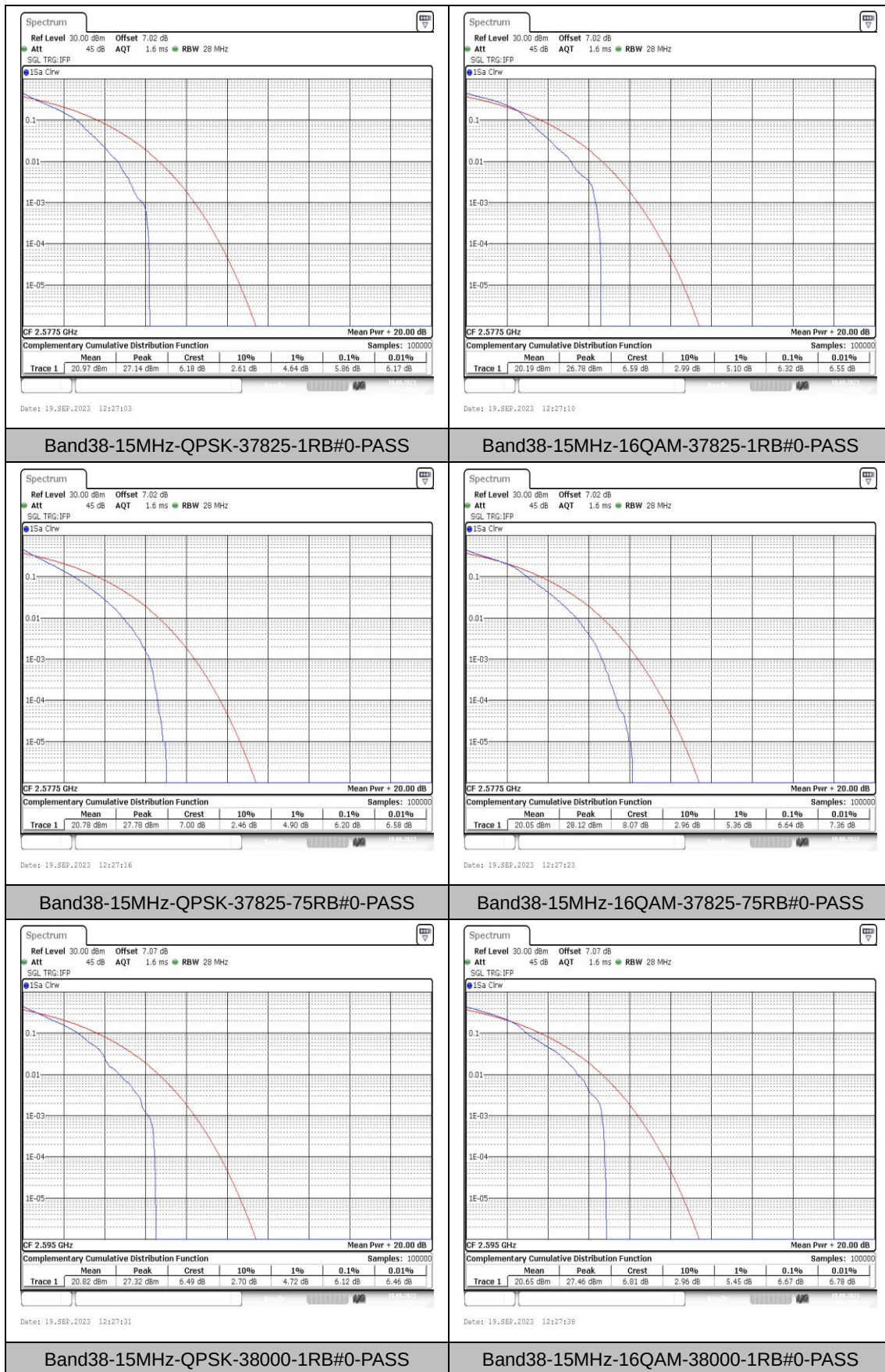
Waltek Testing Group (Shenzhen) Co., Ltd.

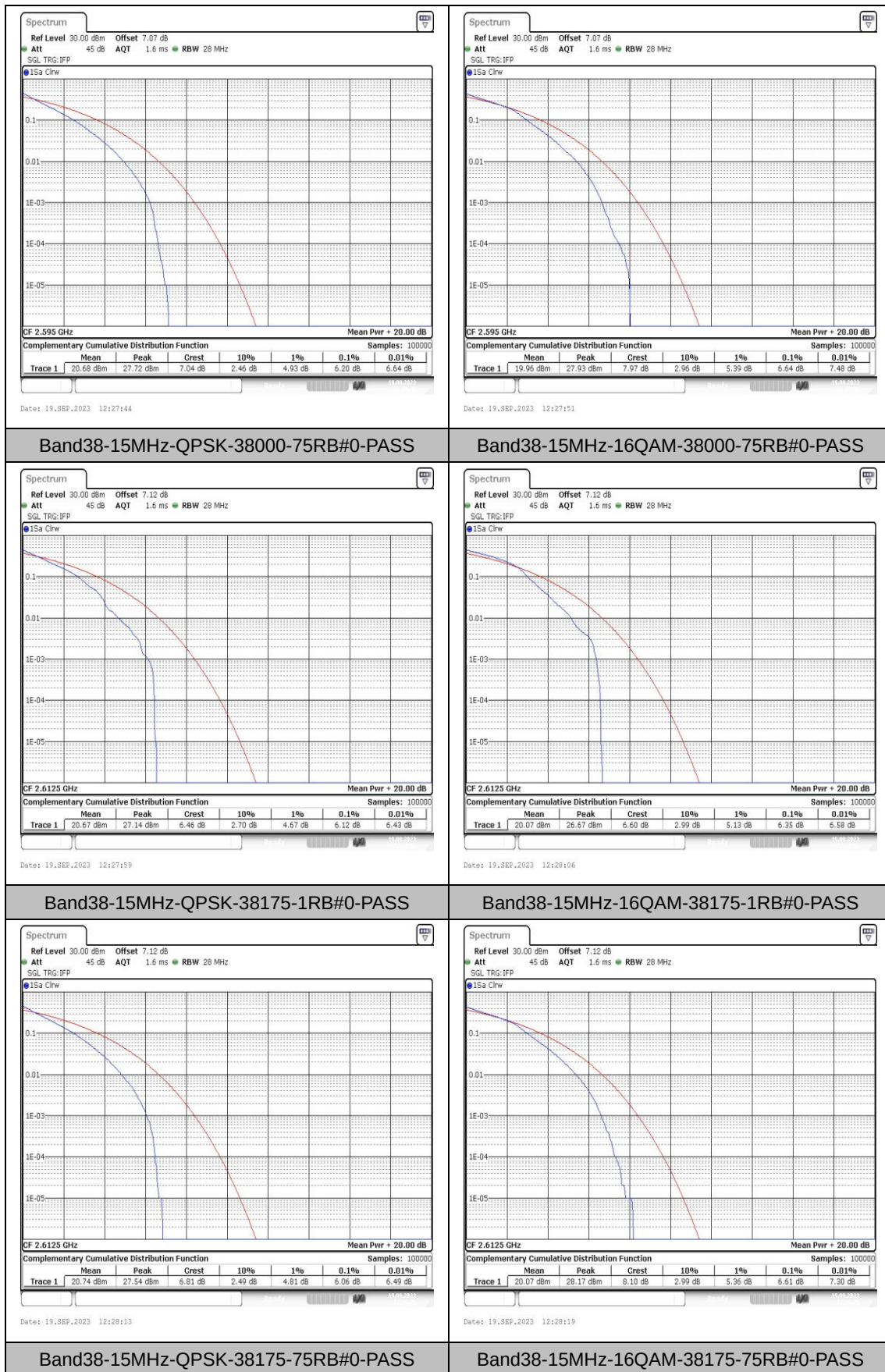
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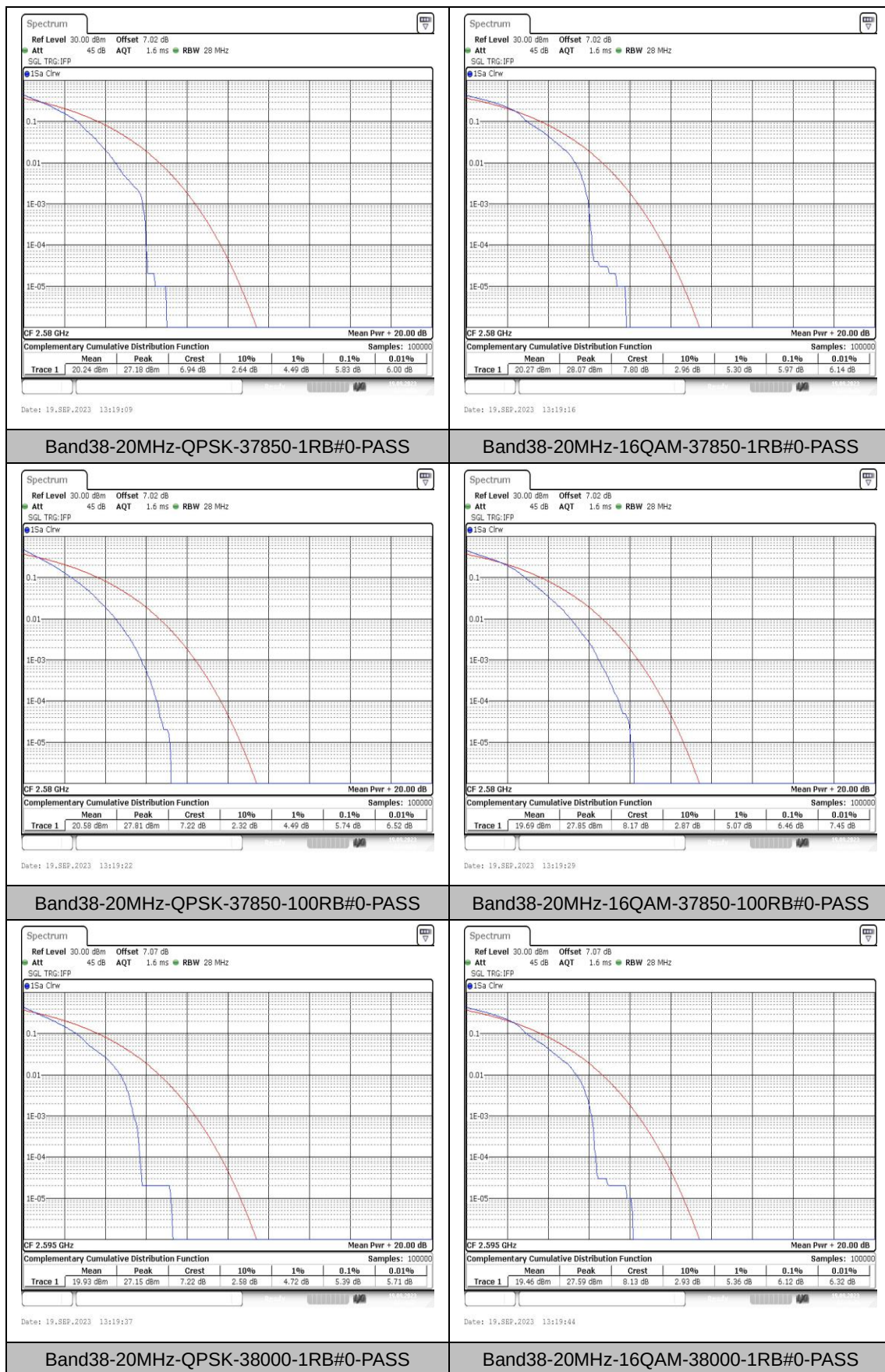


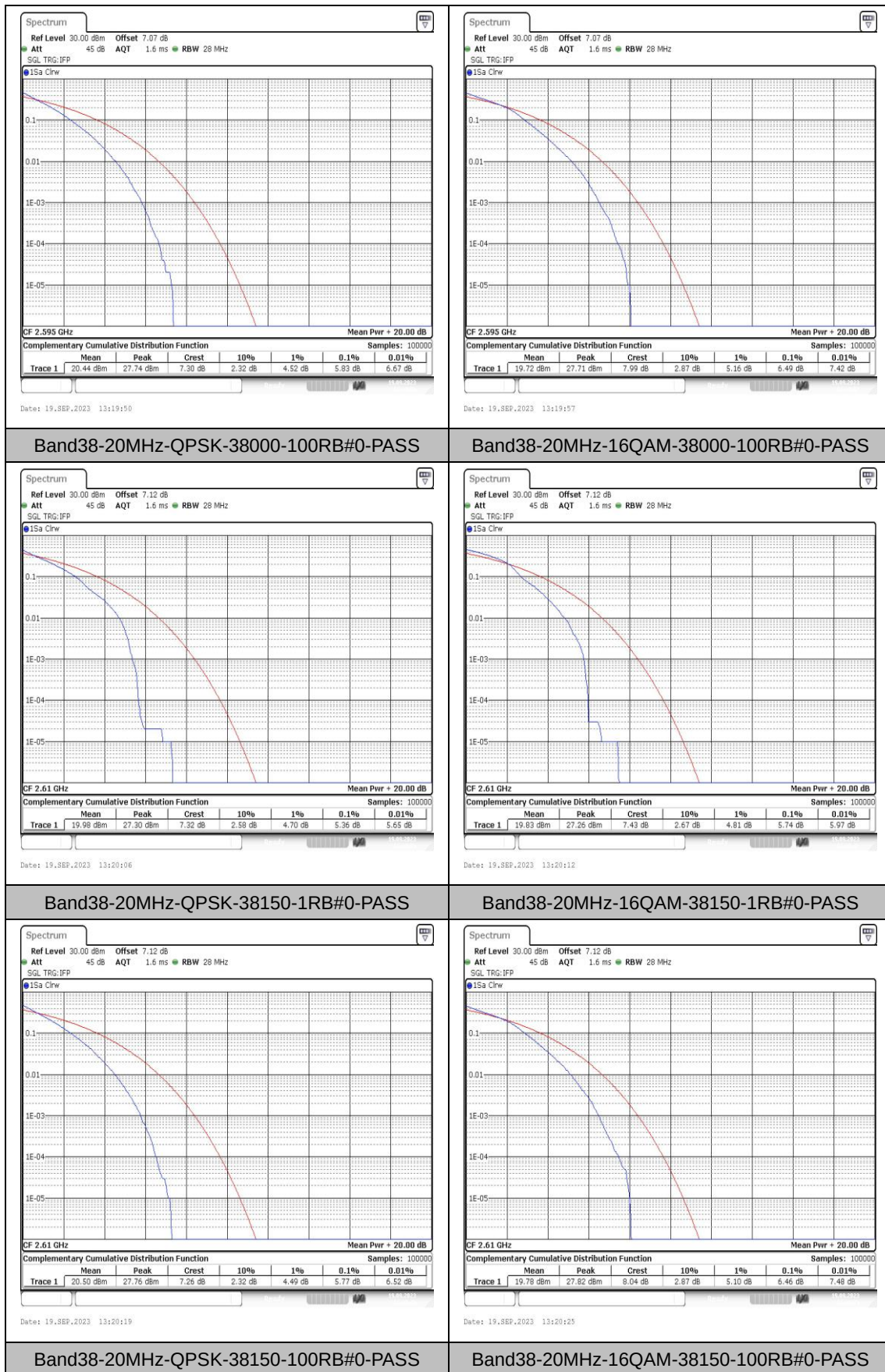










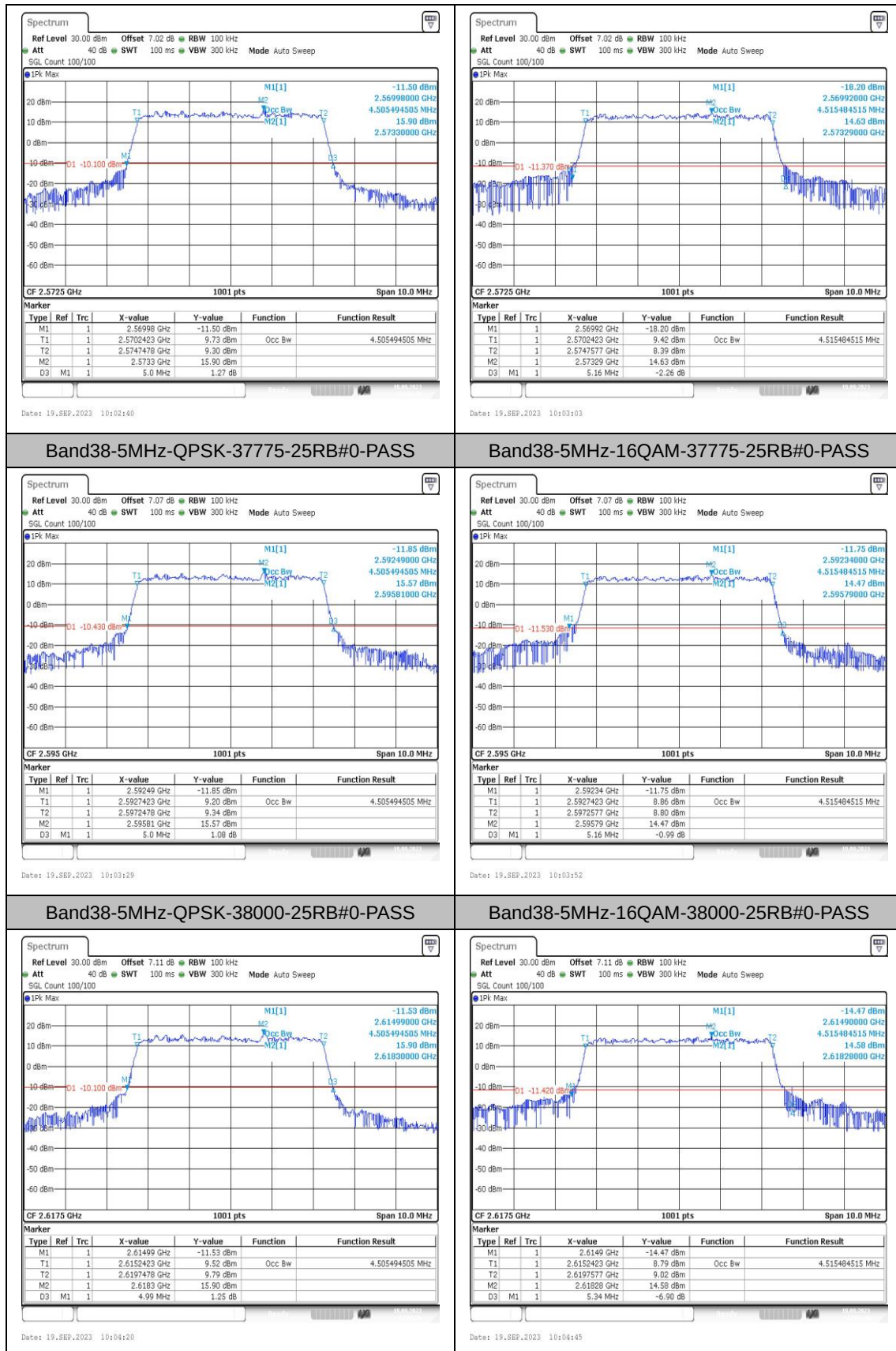


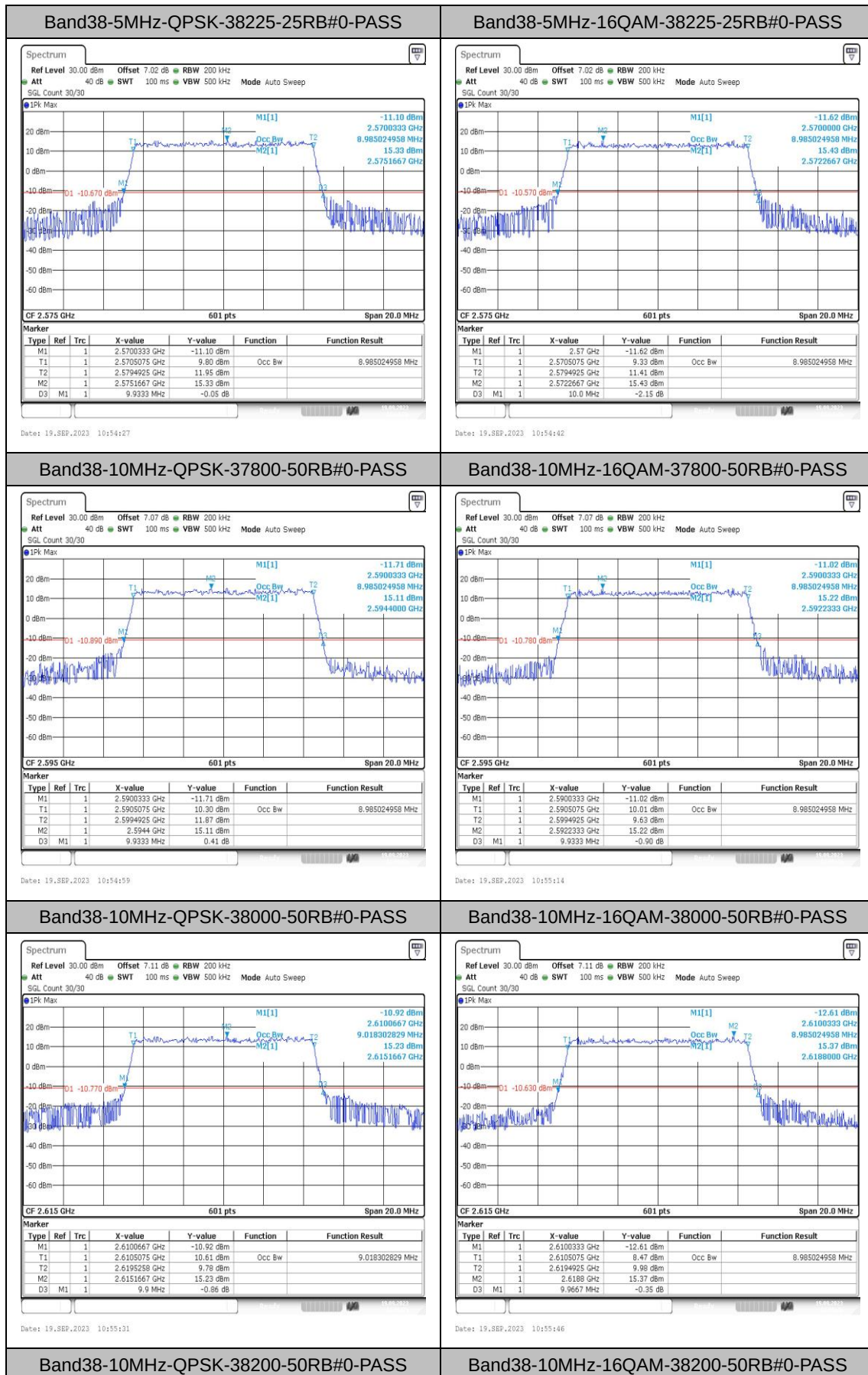
Appendix C: 26dB Bandwidth and Occupied Bandwidth

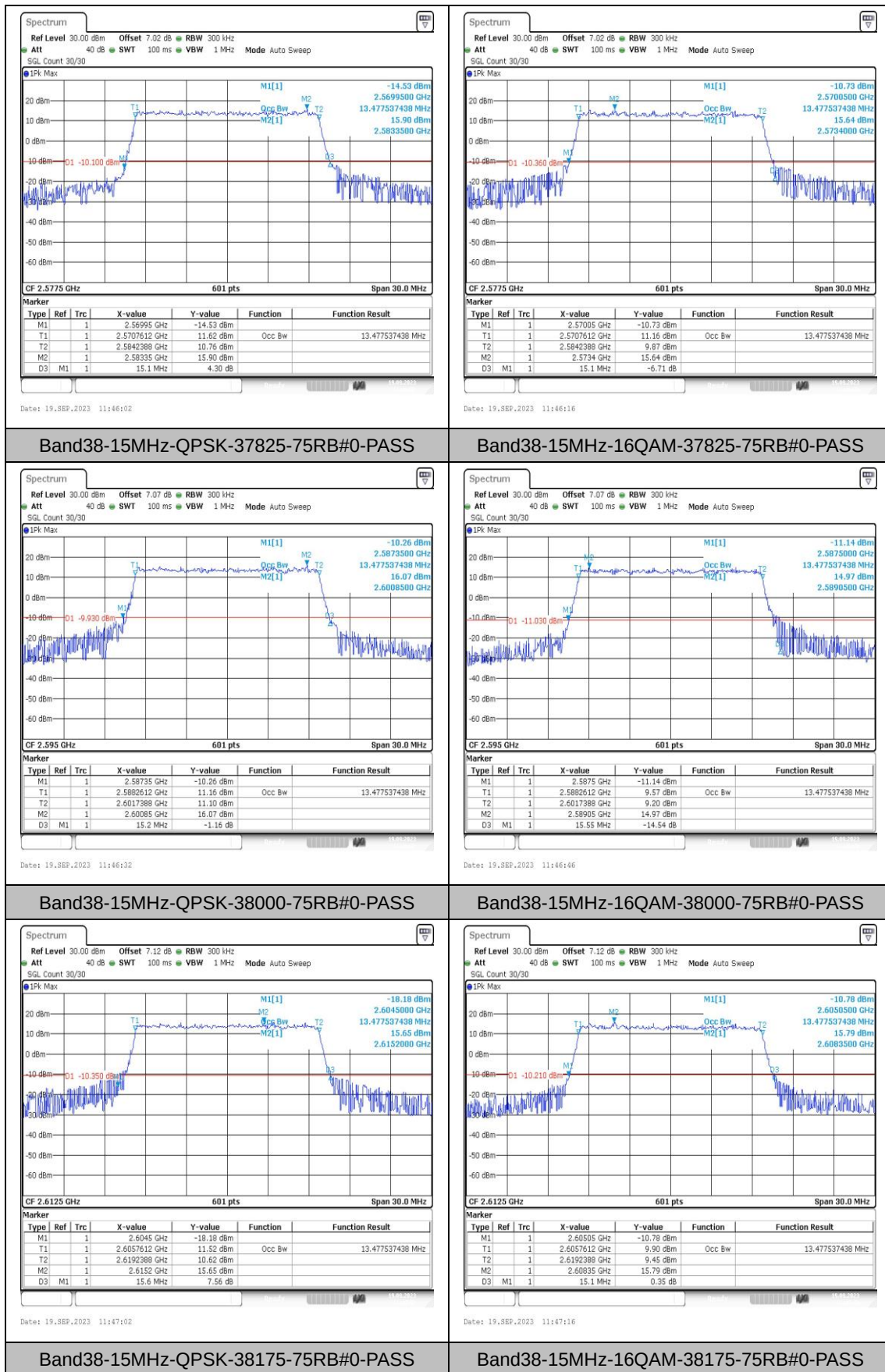
Test Result

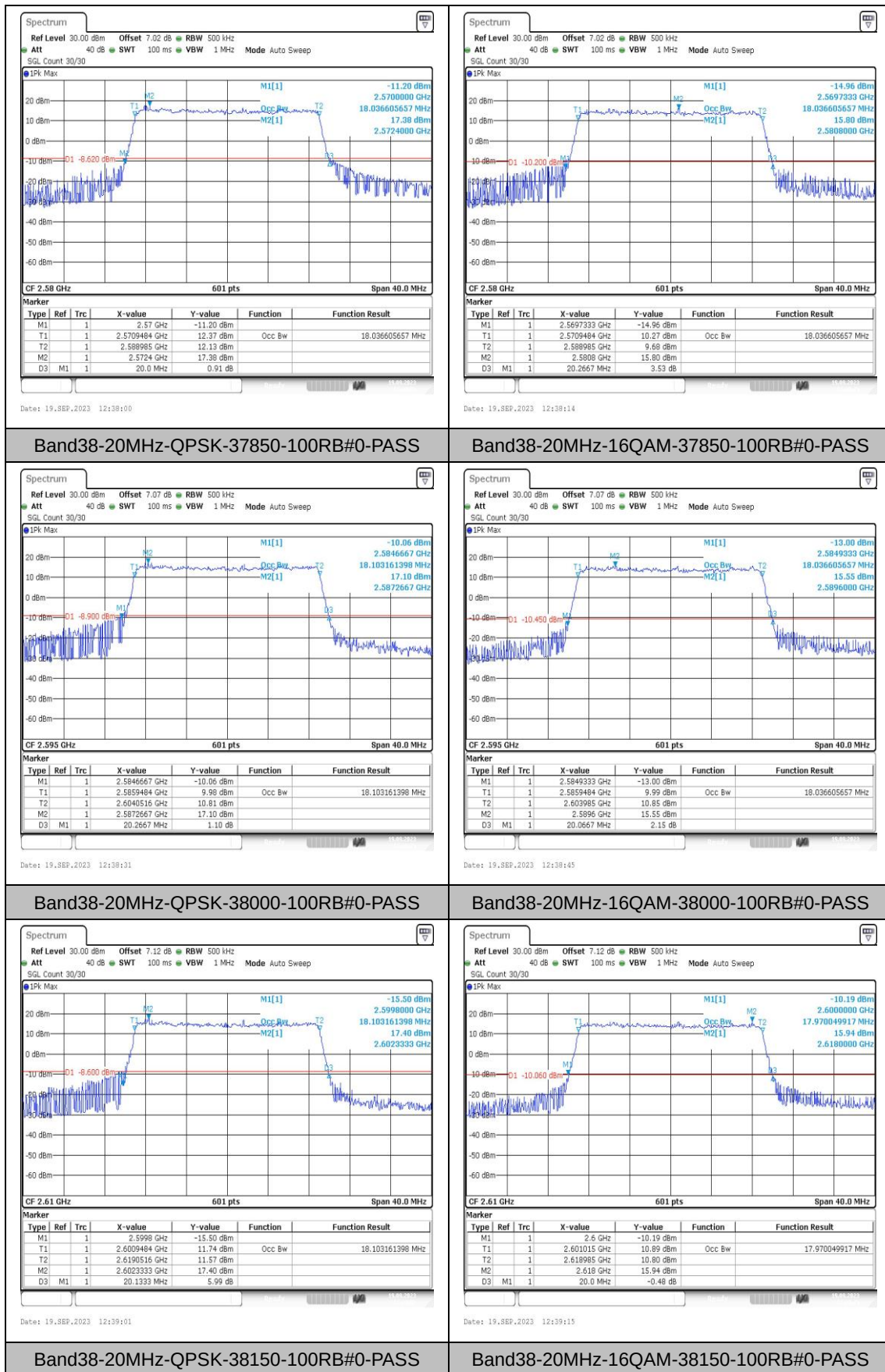
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.505	5.00	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.515	5.16	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.505	5.00	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.515	5.16	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.505	4.99	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.515	5.34	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.985	9.93	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.985	10.00	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.985	9.93	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.985	9.93	PASS
Band38	10MHz	QPSK	38200	50RB#0	9.018	9.90	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.985	9.97	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.478	15.10	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.478	15.10	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.478	15.20	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.478	15.55	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.478	15.60	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.478	15.10	PASS
Band38	20MHz	QPSK	37850	100RB#0	18.037	20.00	PASS
Band38	20MHz	16QAM	37850	100RB#0	18.037	20.27	PASS
Band38	20MHz	QPSK	38000	100RB#0	18.103	20.27	PASS
Band38	20MHz	16QAM	38000	100RB#0	18.037	20.07	PASS
Band38	20MHz	QPSK	38150	100RB#0	18.103	20.13	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.97	20.00	PASS

Test Graphs









Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band38	5MHz	QPSK	37775	1RB#0	-18.56	PASS
Band38	5MHz	16QAM	37775	1RB#0	-19.47	PASS
Band38	5MHz	QPSK	37775	1RB#24	-43.00	PASS
Band38	5MHz	16QAM	37775	1RB#24	-43.02	PASS
Band38	5MHz	QPSK	37775	25RB#0	-40.30	PASS
Band38	5MHz	16QAM	37775	25RB#0	-40.51	PASS
Band38	5MHz	QPSK	38225	1RB#0	-42.80	PASS
Band38	5MHz	16QAM	38225	1RB#0	-42.94	PASS
Band38	5MHz	QPSK	38225	1RB#24	-18.09	PASS
Band38	5MHz	16QAM	38225	1RB#24	-19.86	PASS
Band38	5MHz	QPSK	38225	25RB#0	-38.06	PASS
Band38	5MHz	16QAM	38225	25RB#0	-38.90	PASS
Band38	10MHz	QPSK	37800	1RB#0	-19.88	PASS
Band38	10MHz	16QAM	37800	1RB#0	-22.30	PASS
Band38	10MHz	QPSK	37800	1RB#49	-43.29	PASS
Band38	10MHz	16QAM	37800	1RB#49	-43.21	PASS
Band38	10MHz	QPSK	37800	50RB#0	-41.44	PASS
Band38	10MHz	16QAM	37800	50RB#0	-41.33	PASS
Band38	10MHz	QPSK	38200	1RB#0	-43.12	PASS
Band38	10MHz	16QAM	38200	1RB#0	-43.16	PASS
Band38	10MHz	QPSK	38200	1RB#49	-20.87	PASS
Band38	10MHz	16QAM	38200	1RB#49	-21.38	PASS
Band38	10MHz	QPSK	38200	50RB#0	-38.48	PASS
Band38	10MHz	16QAM	38200	50RB#0	-37.52	PASS
Band38	15MHz	QPSK	37825	1RB#0	-21.57	PASS
Band38	15MHz	16QAM	37825	1RB#0	-20.50	PASS
Band38	15MHz	QPSK	37825	1RB#74	-43.07	PASS
Band38	15MHz	16QAM	37825	1RB#74	-43.10	PASS
Band38	15MHz	QPSK	37825	75RB#0	-42.04	PASS
Band38	15MHz	16QAM	37825	75RB#0	-41.81	PASS
Band38	15MHz	QPSK	38175	1RB#0	-42.84	PASS
Band38	15MHz	16QAM	38175	1RB#0	-42.91	PASS
Band38	15MHz	QPSK	38175	1RB#74	-20.38	PASS
Band38	15MHz	16QAM	38175	1RB#74	-21.24	PASS
Band38	15MHz	QPSK	38175	75RB#0	-37.62	PASS

Band38	15MHz	16QAM	38175	75RB#0	-37.98	PASS
Band38	20MHz	QPSK	37850	1RB#0	-22.68	PASS
Band38	20MHz	16QAM	37850	1RB#0	-21.61	PASS
Band38	20MHz	QPSK	37850	1RB#99	-43.31	PASS
Band38	20MHz	16QAM	37850	1RB#99	-43.37	PASS
Band38	20MHz	QPSK	37850	100RB#0	-42.49	PASS
Band38	20MHz	16QAM	37850	100RB#0	-42.55	PASS
Band38	20MHz	QPSK	38150	1RB#0	-43.09	PASS
Band38	20MHz	16QAM	38150	1RB#0	-43.09	PASS
Band38	20MHz	QPSK	38150	1RB#99	-22.69	PASS
Band38	20MHz	16QAM	38150	1RB#99	-20.52	PASS
Band38	20MHz	QPSK	38150	100RB#0	-38.98	PASS
Band38	20MHz	16QAM	38150	100RB#0	-39.36	PASS

Test Graphs

